

LIST OF CRANIA + SKELETONS OF FISHES (by WOODWARD + YARROW?)
(MN-9196)

Sec 5

MM 9196

LIST OF CRANIA AND SKELETONS OF FISHES.

NOTE.—The classification adopted is that of Dr. Theodore Gill, in his

paper
entitled "Catalogue of the Fishes
of the East-coast of North America
Smithsonian Miscellaneous Collection
No 283 Washington D.C.
1873 & the nomenclature for
the marine forms is substanti-
ally the same as is followed
~~in that as is given~~ in that
publication. The names of the
fresh water species are based
upon the recent publication
of Gies & Jordan & others.

CLASS PISCES.

SUB-CLASS Teleostei.

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piscatorius Linn.

ORDER Pediculati.

Family LOPHIIDÆ.

Lophius americanus D. C. Day. *Goose Fish; Fishing Frog;*
Sea Devil.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1156 ✓					Smithson. Inst.
1157 ✓					" "
1164 ✓					Smithson. Inst.
2376 ✓			Gloucester Mass. Jun 79 W. Fish. Com.		" "

ORDER PLECTOGNATHI.

SUB-ORDER GYMNODONTES.

Family Diodontidae

Chilomycterus geometricus, (Linn.) Kaup.....

Spring box-fish; Rabbit-fish; Ensign. Porcupine fish

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1723 ✓			Delaware Bay. Atlantic coast.	W. St. C. Yarrow ^{W. A.}	W. St. C. Yarrow ^{W. A.}
1839 ✓			Noank Conn.	W. Fish Com.	Smithson. Inst.

Family TETRONDONTIDÆ.

Chilichthys turgidus (Mitch.), Gill. *Rough Puffer; Por-*
cupine Fish; Blower. Sweet-fish;

Jambon.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1413 ✓			Potomac River	Mr E. Schmidt	
1834 ✓			Noank Conn	W. Fish Com.	Smithson. Inst.
1920 ✓			Potomac River	Wm. G. Schaphire-	

X

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Sub-order *Sclerodermata*
 Family *Balistidae*
 Sub-Family *Muraenanthidae*
 Family *Balistidae*

Aluterus cuspicauda, DeKay.

✓ Long-tailed File-Fish.

Cran.	Skel.	Sex.	Locality.	Wali	Collector.	Donor.
	1837 ✓		Woods Hole Mass	U.S. Fish Com	Smithson. Inst.	

Ceratacanthus aurantiacus, (Mitch.) Gill.

Aluterus Schopffii (Walb.)

Hog-fish; File-fish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1714 ✓		Chesapeake Bay	Wm. Jos R. Smith Wla	
	1821 ✓		Woods Hole Mass	U.S. Fish Com.	Smithson. Inst.

Stephanolepis setifer, (Bennett) Gill.

Stomias File-fish; Foul-fish.

Cran.	Skel.	Sex.	Locality.	Wali	Collector.	Donor.
	1814 ✓		Woods Hole Mass	U.S. Fish Com	Smithson. Inst.	
	2345 ✓		Balistes reticulatus Linnaeus East Coast Juny 79	U.S. Fish Com.	Smithson. Inst.	

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Order Hemirhamphidae
 Family Gasterosteidae
 Sub-family Gasterosteinae

Gasterosteus aculeatus, Shaw ..

Two-spined Stickleback

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	1850 ✓		Woods Hole Mass	W. Fish. Com.	Smithson. Inst.	
	2328 ✓		Gasterosteus aculeatus Linn. Woods Hole Mass June 19	W. Fish. Com.	Smithson Inst.	

Apeltes quadratus, (Mitch.) Brev.

Four-spined Stickleback.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1867 ✓		Woods Hole Mass	W. Fish. Com.	Smithson Inst.

ORDER Telecephali.
 SUB-ORDER HETEROSOMATA.

Family Soleidae
 Sub-family Soleinae

Achirus lineatus, (Linn.) Cuv.

American Sole, Calico hog-choker; Cowfish; Spotted Sole

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	1873 ✓		Eastern coast of United States	W. Fish Com.	Smithson Inst.	
	2347 ✓		Solea vulgaris Linn.	June 1879	W. Fish Com.	Smithson Inst.
X	2348 ✓		Elbe River Germany	1879	W. Fish Com.	Smithson Inst.

Sub. fam. Pleuronectinae

Family PLEURONECTIDÆ
Pseudopleuronectes americanus (Walb.) Gill. Common
Flounder.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	13 ✓	♀			Purchased
1153 ✓					Smithson. Inst.

Pleuronectes glaber, (Storer) Gill...

Smooth Plaice, Smooth-back Flounder.

Cran.	Skel.	Sex.	Locality.	Walt.	Collector.	Donor.
1795 ✓			Portland Maine	W.S. Fish Com.	Smithson. Inst.	
2359 ✓			Wash. Market	Jun 79	" " "	" "

Glyptocephalus cynoglossus (Goldsch.) Gm.
~~Hog Flounder Flounder - Craig Fluke~~

Cran.	Skel.	Sex.	Locality.	Walt.	Collector.	Donor.
2373 ✓			Mass Bay	Jun 79	W.S. Fish Com.	Smithson. Inst.

Sub. family Rhombinae

Lophopsetta maculata, (Mitch.) Gill.....

Spotted Turbot; Window-pane; Sand Flounder

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1788 ✓			Eastport Maine	W.S. Fish Com.	Smithson. Inst.

Sub-family Hippoglossinae

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Chænopsetta occularis (De Kay), Gill. *Long-toothed Flounder.*

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	107				Purchased.
	1771	✓	No. 12 Com. N. Fish. Com.		Smithson. Inst.

Chænopsetta dentata, (Storer) Gill....

Southern Flounder

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	1785	✓	St. Johns River Florida		G. B. Goode	Smithson. Inst.
	2360	✓	East Coast Aug 99	N. Fish. Com.	"	"

Chænopsetta oblonga, (Mitch.) Gill.

Four-spotted Flounder

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1830	✓	Woods Hole Mass.	N. Fish. Com.	Smithson. Inst.

Hippoglossus americanus, Gill. *Halibut.*

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	152	✓			Purchased
	2206	✓	Platysomichthys hippoglossoides (Wall.) Goode & Bean Tuniber. Aug 98 N. Fish. Com.		Smithson. Inst.

Sub-order Jugulares

Family GADIDÆ.

Pollachius carbonarius, (Linn.) Bonn.

Sub-family Gadiniæ

Pollack; Coal-fish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1832		Eastport-Maine N. Fish. Com.		Smithson. Inst.

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Gadus morrhua, Linn. Common Codfish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	111 ✓	♂			Purchased.
553 ✓					"

Sub. Family Physinæ

Physis chuss (Walt.) Gill.

Codling - old English Hake - Squaline
Hake. Ling - Chuss - Fork-beard.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
2368 ✓			Gloster Mass.	Jun 79	U.S. Fish Com.	Smithsonian Inst.

Physis tenuis (Mich.) Ne Kay.
Codling - White Hake - Squaline Hake

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
2363 ✓			East C. U.S.A.	Jun 79	U.S. Fish Com.	Smithsonian Inst.
2357 ✓			" "	" "	"	" "
2331 ✓			N.J. Amer.	Jun 79	U.S. Fish Com.	Smithsonian Inst.

Sub. Family Lutinæ

Lota lacustris, (Walt.) Gill...

maculata Les

Ling; Burbot; Lake Lawyer Eel - part Lake cusk.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1816 ✓			Alpine Mich.	J. M. Miller	Smithsonian Inst.
616 ✓					Mr John Gibson

Microgadus tomcodus (Walb.), Gill. Tom Cod; Frost Fish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
616 ✓					Mr John Gibson
1772 ✓			Woods Hole Mass.	U.S. Fish Com.	Smithsonian Inst.

Melanogrammus aeglefinus (Linn.), Gill. Haddock.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
26 ✓					Purchased
554 ✓					"

Sub. Family Ciliatinae ^{W. & Bean}
Cynos. cimbrinus (Linn.) ^{Gruber} Rockling

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
2337 ✓			Halifax N.S.	Jun 79	U.S. Fish Com.	Smithsonian Inst.

Sub. family Brosminae

Brosmius americanus, Gill. European Cusk; Polar Cod
Fish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	626 ✓				Purchased.

Family MERLUCHIDÆ.

Merluccius bilinearis (Mitch.), Gill. American Hake.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1841	1841 ✓				Smithson. Inst.
1841	✓		Woods Hole Mass	N. Fish. Com.	Smithson Inst.

Family Syngnathidae

Sub. family Syngnathinae Zoarcinæ.

Zoarces anguillaris, (Peck) Storer.

Eel-pout; Conger-Eel; Lamprey-Eel.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1777	✓		Eastport-Maine	N. Fish Com.	Smithson Inst.

SUB-ORDER ACANTHOPTERI.

Family CRYPTACANTHIDÆ.

Cryptacanthodes maculatus, Storer. Ghost Fish; Wry-mouth.

Cran.	Skel.	Sex.	Locality.	Wali	Collector.	Donor.
	81 ✓					Prof. J. A. Gies.
	2329 ✓			Jun. 79	U.S. Fish. Com.	Smithson. Inst.

Family Xiphidiontidæ

Muraenoides mucronatus, (Mitch.) Gill.

Common Butter-fish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1862 ✓		Wood's Hole Mass.	U.S. Fish. Com.	Smithson. Inst.

Family Batrachidæ

Batrachus tau, Linn ..

Toad-Fish - Oyster-fish.

Cran.	Skel.	Sex.	Locality.	Dan	Collector.	Donor.
	1726 ✓		Chesapeake Bay		W. J. C. Yarrow	
	1842 ✓		Iowa City, Ia.		U.S. Fish. Com.	Smithson. Inst.
				(Cuv. & Val)		
			Poecilothys porosissimus		Günther	
	2370 ✓		San Barbara Cal.	Jun 79	J. C. Yarrow	Smithson. Inst.
						203

Family Gobiidae
Sub-family Eleotridinae

Eleotris.....

✓

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1863 ✓		w coast of Central America		Smithson Inst.

Worm-eater
S'leper

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1859 ✓		west coast of Central America		Smithson Inst.

Family Triplidae
Sub-family Wactylopterninae

Wactylopterus volitans (Linn.) Lac.

Flying-robin; Murcielago, Bat-fish; Cireta de manz

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1794 ✓		Woods Hole Mass	U.S. Fish Com	Smithson Inst.
	2414 ✓		" " Aug 1860	" " "	" "

Sub-family Triglinae.

Prionotus volans (Linn.) Gie.
Lined sea-robin; Flying-fish

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	1729 ✓		Bermuda			Mr. J. F. C. Yarrow
2356 ✓	1730 ✓		East Coast	June 79		" " " Smithson Inst.

Prionotus carolinus (Linn.) Cuv. & Val
Web-finged sea-robin; Carolina robin

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1783 ✓		Noank Conn	U.S. Fish Com	Smithson Inst.

Family Agonidae

Sub-family Septiagoninae

Aspidophoroides monopterygius (Block) ^{Storer}
Groundander.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
2323 ✓			Mass. Bay	June 79	U.S. Fish. Com	Smithson Inst.

Family Cottidae

Sub. family Cottinae

Cottus octodecemspinosus Mich.

Slender sculpin; Grubby.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1812 ✓		Portland Maine	U.S. Fish. Com	Smithson Inst.

Family Scorpænidæ
Sebastes marinus (Linn.) Lücken
 Red. fish - Snapper.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
2375 ✓				June 1879	U.S. Fish. Com.	Smithson. Inst.
2423 ✓				May 1881	U.S. Fish. Com.	Smithson. Inst.
2422 ✓				May 1881	D. W. Jordan	Smithson. Inst.

Cran.	Skel.	Sex.	<u>Sebastichthys atrovinere</u> , For. and Gill.			
			Locality	Date	Collector	Donor.
2445			San Francisco Cal.	June 1881	Smithsonian Inst.	Smithsonian Inst.
2455			California	Aug. 1881	Smithsonian Inst.	Smithsonian Inst.

2446 ✓			<u>Sebastichthys Cuvatus</u> , For. and Gill.			
			San Fran. Cal.	June 1881	Smithsonian Inst.	Smithsonian Inst.
2452 ✓			San. Fran. cal.	Aug. 1881	Smithsonian Inst.	Smithsonian Inst.

Family LABRIDÆ.
 Tautoga onitis (Linn.), Günther. Black Fish; Tautog.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	54 ✓	♂			Purchased
576 ✓					"

Tautogolabrus adspersus (Walbaum) Gill
 Common Perch. Tautog.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1775 ✓			Portland Maine	U.S. Fish. Com.	Smithson. Inst.

Sub-family Indidæ.
Urophycis modestus (Graa.) Gie

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1858 ✓			Santa Barbara Cal.	Dr. J. D. C. Yarrow	Smithsonian Inst.

Family Embiotocidae
Holconotus rhodostictus Gie and
Californian viviparus Pench

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1739 ✓			Santa Barbara Cal.		
1740 ✓			" " "	Wm. J. D. C. Yarrow U.S.A.	

Taeniodon lateralis (Agass.) Agass.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
2372 ✓			California	June 1879	U.S. Fish. Com.	Smithson. Inst.
2371 ✓			Santa Barbara Cal.	June 1879	J. D. C. Yarrow	Smithson. Inst.

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Family Pomacentridæ

Glyptothodon saxatilis (Linn.) Cuv. & Val.
Cow-fish; Sergeant-major.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1751 ✓		Bermuda	Fred. Mather	W. J. C. Yarrow
1813 ✓			"	G. B. Goode	Smithsonian Inst.

Family Tenthrididae.
Acanthurus chirurgus Bloch. & Schneider
Surgeon-fish; Barber; Doctor-fish

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1725 ✓		Bermuda	Fred. Mather	W. J. C. Yarrow

Family Chaetodontidae
Sub-family Chaetodontinae

Synodus binaculatus (Bloch) Poey
Four eyed fish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1762 ✓		Bermuda	G. B. Goode	Smithsonian Inst.

Heros.....

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1861 ✓		West Coast Cent. Amer. ?? Guatemala	P. B. Bangs	Smithsonian Inst.

Holacanthus ciliaris Lac.
Isabelita; Angel-fish

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1773 ✓		Bermuda	G. B. Goode	Smithson Inst.

Family Trichiuridae
Trichiurus lepturus Cuv.
 Silvery Hair-tail; Sword-fish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1711 ✓			Chesapeake Bay	W. J. S. R. Smith & a	
1868 ✓			Beaufort N.C.	W. H. C. Mann	Smithsonian Inst.
1869 ✓			" " "	" " "	" "

Family SCARIDÆ.

Scarus radians Val.
 Spanish Porgy

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1743 ✓			Bermuda	Frederick Mather	W. J. C. Gurnee
1744 ✓			"	" "	" " "
1748 ✓			"	" "	" " "

Pseudocarus guacamaia (Cuv. and Val.), Günther,
Parrot Fish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
812 ✓					Dr. Johnson Elliott
846 ✓					Capt. Asa Fitch Jr.

Family SCOMBRIDÆ.
Scomber scombrus, Linn. Mackerel.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
59 ✓	♂				Purchased
1100 ✓					Purchased
2412 ✓			Scomber maculatus Macleay Pomacentrus maculatus H. & F. C. Smith 1861. <small>Aug 1860</small>		

Sub-family Caranginæ.
Sarda helanops (Linn.) Cuv.
Bonito; Skip-jack.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1800 ✓			Moanae Conn	H. & F. C. Smith 1861.	

Sphyraena (Linn.) Goode.

~~Orcynus~~ ~~lanceolatus~~ (Cuvier) Gill Horse Mackerel;
Tunny.

Barracuda
albimac

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1168 ✓				Smithsonian Inst.
1169 ✓					Smithsonian Inst.
1170 ✓					" "

Enthynnus ~~Dragon~~ *pelamys* (Linn.) Pug-Lütken
Günther Bonito.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
2378 ✓			Wards Isl. Mass., June 79	U.S. Fish. Comm.	Smithsonian Inst.

Cybium maculatum (Mitch.), Cuv. Spanish Mackerel.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	790 ✓				Purchased
1092 ✓					"

Family Carangidae.
Sub. family Vomerinae.
Vomer setiferinus (Mitch.) Ayres.
Horse-fish; Torobado.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1769 ✓			N.Y. Market		Smithsonian Inst.

Selene Argyrosomus vomer, Lac. *Littoral*

✓ *Jorobado* *Stevenson.*

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1894 ✓		Beaufort N.C. Wm. J. L. Tanner	Smithsonian Inst.	

Selene
Argyrosomus capillaris (Mich.) De Kay.
 Moonfish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1715 ✓		Chesapeake Bay	Wm Jas. R. Smith M.A.	

Sub-family Caranginae

Decapterus punctatus, (Ag.) Gill..

Dotted seab; Round - robin

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1801 ✓		Bermuda	G. B. Goode	Smithsonian Inst.

Trachurops crumenophthalmus, (Bloch) Gill....

Big-eyed Scad; Chicharro; Goggler;
Goggle-eyed Jack

✓

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1838 ✓		Woods Hole Mass W.S. Fish Com.	Smithson. Inst.	

Paratractus pisquetos, (Cuv. and Val.) Gill....

Yellow crevalle; Cojima; Jack;
Buffalo Jack.

✓

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1825 ✓		Woods Hole Mass W.S. Fish Com.	Smithson. Inst.	

Carangus hippos, (Linn.) Gill.....

Horse crevalle; Siganaga.

✓

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1822 ✓		Woods Hole Mass W.S. Fish Com.	Smithson. Inst.	
	1828 ✓		" " " " "	" "	" "
	1888 ✓		Beaufort N.C. Dr. J. C. Yarrow	"	"

Blepharichthys crinitus, (Akerly) Gill.....

Thread-fish - Tailor.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1768 ✓		Woods Hole Mass U.S. Fish. Com Smithsonian Inst.		

Sub-family Trachynotinae

Trachynotus ovatus (Linn.) Günther

Short pompano; Palometa

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1716 ✓		Chesapeake Bay	Mr. Los. R. Smith U.S.A.	

Trachynotus carolinus (Linn.), Gill. Pompano; Crevalle.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1211 ✓				Purchased
	1761 ✓		Woods Hole Mass U.S. Fish. Com		Smithsonian Inst.
	1820 ✓		Mr. Y. Market	"	"

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Sub-family Centrolophinae

Halatractus zonatus, (Mitch.) Gill.....

Rudder-fish; Bonito.

✓

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1811 ✓		Woods Hole Mass	W.S. Fish Com	Smithson. Inst.

Family Congerhaenidae.

Coryphaena sueuri, Cuv. and Val.....

Desneux's Dolphin

✓

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1881 ✓		Eastern coast of United States		Smithson. Inst.

Family Stromateidae.
Sub-family Centrolophinae

Palinurichthys perciformis, (Mitch.) Gill.....

Black madder-fish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1829 ✓		N.Y. market		Smithson. Inst.

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Sub-family Stromateinae.

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[Poronotus triacanthus, (Peck) Gill.....]

Hasses-fish; Butter-fish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1774 ✓		Noard Conn. U.S. Fish Com		Smithsonian Inst.
	1831 ✓		Eastport-Maine	" " "	" "

[Pepilus gardenii, (Bl., Sehn.) Gill.....]

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1778 ✓		Wash. Market		Smithsonian Inst.

Family Berguidae
Sub-family Holocentrinae.

[Holocentrum sogo, Bloch.....]

Malajuelo; Squirrel.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1746 ✓		Bermuda	F. Mather	W. St. C. Samm
	1749 ✓		"	F. Mather	" " "
	1750 ✓		"	F. Mather	" " "

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Family Sciaenidae.
Sub. Family Cetolichinae

Cynoscion carolinensis (Cuv. and Val.), Gill. Salmon
Trout; Spotted Sea Trout.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1146				Smithsonian Inst.
	1190		1869		Mr. F. Schaphis - U.S.A.

Cynoscion regalis (Bloch), Gill. Squeteague; Weak Fish;
Gray Trout.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	105	♂			Purchased
	110	♀			"
1156					"

Sub. family Haploidonotinae

Haploidonotus grunniens, Raf....

Lake shropshire; white perch; Grunter; Drum

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1579		New York. State	F. Mather	F. Mather
	1796		Detroit - Mich.	J. W. Milner	Smithsonian Inst.

Pogonias chromis, Lac.....

Worm; Cyster Drum

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
120 ✓					Purchased
Pat. Bone 1096 ✓					Purchased.
1741			Chesapeake Bay	Mr. J. R. Smith	Ind.

Sub-family Liostominae

Liostomus xanthurus, Lacep. Yellow Tail; Spot.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	877 ✓	juv.			
878 ✓	885 ✓	ad		Hush. Stev A. K. Fennell, Jr. Purchased.	
886 ✓				"	
887 ✓				"	

Liostomus obliquus (March.) Nakay.
La Fayette - Gordy - Chub - Ranch.

Cran.	Skel.	Sex.	Locality.	Wali	Collector.	Donor.
	2332 ✓		St. Johns Riv. Fla	Jan 79	N. Fish. Com.	Smithson. Inst.

Sub-family Sciaeninae.

Sciaenops ocellatus (Linn.), Gill. Red Bass; Bass; Sea Bass; Red Fish; Ocellated Drum.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
142 ✓					Purchased.
559 ✓					"

Bairdiella punctata (Linn) Gill
Silver Perch.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1855 ✓		Brunswick Geo		Smithson. Inst.

217

Menticirrus nebulosus (Mitch.), Gill. King Fish; Whiting;
Hake; Barb.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1145 ✓				Smithsonian Inst.
	1149 ✓				" "
	1151 ✓				" "
	1154 ✓				Smithsonian Inst.
	1182 ✓		Woods Hole Mass. N.S. Fish. Comm. <u>Menticirrus undulatus</u> . (Grd.). Gill.		Smithsonian Inst.
2434			Santa Barbara cal. June 1881. Menticirrus littoralis, (Holbr.) Gill.....		Smithsonian Inst.

Shore whiting

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1846 ✓		Florida		Smithsonian Inst.

Micropogon undulatus (Linn.), Cuv. and Val. Croaker;
Hick Fish.

Cran.	Skel.	Sex.	Locality.	Natl.	Collector.	Donor.
	1144					
	1144					
1147	2349 ✓		East Coast	Juny 9 N.S. Fish Comm	" "	

Family Gobiidae.

Enchostomus leprosus Goode
Long-boned shad.

✓

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1804 ✓		Bermuda	G. B. Goode	Smithsonian Inst.

Family Pimeleptidae

Pimelepterus, boscii, Lac.

Chopa-banca; Bream

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1745 ✓		Bermuda	End Mather	Mr. J. C. Yarrow
1770 ✓			"	G. B. Goode	Smithson Inst.

Family SPARIDÆ.

Sub-family Sparinae.

Lagodon rhomboides, (Linn.) Holbr.

Sargo.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1892 ✓		Florida		Smithsonian Inst.

Archosargus probatocephalus (Walb.), Gill. *Sheephead.*

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
61 ✓	♂					Purchased
574 ✓						"
1781 ✓			N.Y. Market.	U.S. Fish Com.	Smithsonian Inst.	
2841 ✓			San Juan Islands Chambers S.C.	June 79	U.S. Fish Com.	Smithsonian Inst.

Stenotomus argyrops (Linn.). Gill. *Scup; Porgy.*

Sunshangs; Bream
Fair-maid.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1201 ✓				Purchased
1202.					"
1203.					"
1204.					"
1212 ✓	1776 ✓		Woods Hole Mass U.S. Fish Com	Smithsonian Inst.	Smithsonian Inst.
(1876? Dr. Shufeldt)					
			Sub Family Pristopromatidae		
			Sub Family Pristopromatinæ		
			Orthopristis fulvomaculatus (Mich) Gill		

<i>Cran.</i>	<i>Skel.</i>	<i>Sex.</i>	<i>Locality.</i>	<i>Nali</i>	<i>Collector.</i>	<i>Donor.</i>
	236+ ✓			Jun 79	W. Fish. Com.	Smithsonian

Gnunt.

26 A

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1843 ✓		Bermuda	G. B. Goode	Smithson Inst.

Haemylum flaviguttatus, Gill.

Yellow spotted Gnunt.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1891 ✓		Colima		Smithson Inst.

Haemylum.....

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1871 ✓			Florida		Smithson Inst.

Rhampholites aurorubens (C & V.) Gill
Basilard Snapper

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	2352 ✓		Charleston S.C.	Jun 79	U.S. Fish. Com.	Smithson Inst.

Sub-family Lutjaninae

Lutjanus caxis, (Bl., Schn.) Gill ...

Yellow, Glass-eyed snapper.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1798 ✓		Bermuda	G. B. Goode	Smithson Inst.
	2165 ✓		Coast of Florida	Eng Blaukford	G. B. Goode
					221

Lutjanus blackfordi Goode & Bean

Blackford's Snapper -

Coast of Florida Eng Blaukford G. B. Goode

Sub-family Serraninae
Epinephelus striatus, (Block) Gill.
 Hamlet; Grouper

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1492 ✓		Bermuda	G. B. Goode	Smithsonian Inst.

Epinephelus guttatus, (Gmelin) Goode.

Hind.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	+806 ✓		Bermuda		G. B. Goode	Smithsonian Inst.
2354 ✓				Jun 79 U.S. Fish. Com		Smithsonian Inst.

Centropristes atrarius (Linn.). Black Sea Bass.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	11 ✓	♂			Purchased
575 ✓					
1835 ✓	1734 ✓		Bermuda	F. Mather.	Dr. J. C. Garrow.

Woods Hole Mass. U.S. Fish. Com. Smithsonian Inst.

Family ETHEOSTOMIDÆ

Wihlesium blennivides (Raf.) Jordan

Green sided Warter.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	2415 ✓		Black Riv. 6 mi.	Aug 18th	N.W. Jordan	Smithsonian Inst.

28.

Family Percidae

americanus Schraub.

Percina americanus (Mitch.). Yellow Perch.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	24 ✓	♀			Purchased.
568 ✓					Wash Market
568					
1833 ✓			Wash Market		Purchased
1884 ✓			Sandusky Ohio		Smithson. Inst.
					" "

thium vitreum (Mitch.) Jor. & Copeland.

Stizostedion americanum, Girard. Pike Perch.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	148 ✓	♂			Mash-Stew.	A. R. Garrison
2355 ✓	1875 ✓		Ecorse Mich. East-Cruse June 79	W.S. Fish. Com.	Smithson. Inst.	" "
			<i>Stizostedion vitreum</i> (Webb) Gilmore Sanger, Gray Pike Perch.			
1741 ✓	2333 ✓		Welamare River Memphis Tenn	July 79	Dr. J. D. C. Garrison, W.S. Fish. Com.	Smithson. Inst.

Percina caprodes (Raf.), Girard. Hog Fish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	170 ✓	♂			Purchased

29

223

ichthys is jor.

Bolegomia fufiforme, Girard. (Darter.)

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	74 ✓	♂	S	1866	Hast. Stein E. Schaphirst-Wla

Family LABRACIDÆ.

Morone americana (Gmelin), Gill. White Perch.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	23 ✓	♀			Purchased
558 ✓					"

near Serranus

Paralabrax clathrata, Grd ..

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1870 ✓		Santa Barbara Calif	W. H. C. Tanner	Smithson. Inst.

Roccus lineatus (Bl. Sch.), Gill. Striped Bass; Rock Fish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	3 ✓	♂	n		Purchased
43 ✓				1866	Hast. Stein, E. F. Schaphirst-Wla

Roccus chrysops, (Raf.) Gill ...

White Bass - Striped Lake Bass

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1872 ✓		Lake Erie		Smithson. Inst., 224

(L.)

Family CENTRARCHIDÆ.
Lepomis auritus Gill. Long-eared Sunfish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	5				Purchased
860					
865	1886		Susquehanna Riv ^{Pa} 1866	Mr. F. Schaphuis - W. A. Smithson. Inst.	

Lepomis pallidus, (Mitch.) Gill and Jordan....

Pale Sun-fish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1883		Sandusky Cesis		Smithson Inst.

Lepomis apodus Cope.
Fly-spotted Sun-fish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1893		Florida		Smithson Inst.

Xenotis sanguinolentus, (Ag.) Jordan..

Lepomis
Blue & orange Sunfish; Sun Perch.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1854		Tangipahoa Riv. La	Mr. T. Bean	Smithson Inst.

Eupomotis aureus, (Walb.) Gill and Jordan.... Common Sunfish; Pumpkin-seed; Tobacco-box.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	815 ✓			1866 Hosh. Stein. E. F. Schaphire-USA	
	1735 ✓		Bermuda		Wm J. C. Gann
1747 ✓			"	" "	" "

Eupomotis speciosus, (Holbr.) Gill....

Southern Sun Fish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1889 ✓		Florida (Lord.)		Smithson Inst.

Enneacanthus obesus, Gill. Mottled Sunfish.

Green Sun fish.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	1890 ✓		Florida			Smithson Inst.
	2330 ✓		Telipomis cyanellus Raf. Blue spotted Sppn fish Cumber Rive	July 9	W. Fish Com.	Smithson Inst.

Centrarchus indicus C & N.
Shinin Bass.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	2413 ✓		North Carol.	Aug 1881	W. Fish Com.	Smithson Inst.

32

226

Pomoxys nigromaculatus (Le S.) Grd.

Hyperistius carolinensis, Gill. Black-Spotted Sunfish.

Bitter-head

Grass Bass. Calico Bass. Bar-fish. Strawberry Bass.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	823 ✓					Mr. F. McGuire
	1779 ✓		Wilmington N.C.			Smithson. Inst.
	2335 ✓			Ohio Jun. 79	U.S. Fish Com.	Smithson. Inst.

Micropterus dolomieu
Micropterus salmoides (Lac.), Gill. Small-mouthed
Black Bass; Black Bass.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	147 ✓	♂			Purchased
	1789 ✓		Upper Potowmack River		Smithsonian Inst.
	1799 ✓		Ithaca N.Y. Ithaca Mass.	U.S. Fish Com.	" "

~~Salmonodes (Dol.)~~ ~~lepidodon.~~
Salmonodes (Dol.) Vallo & Boe.

Micropterus floridanus (Le S.), Gill. Oswego Bass. Large-mouthed
Black Bass.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
32	1142 ✓				Smithson. Inst.
	1787 ✓		Tangipahoa River, Mr T. Bean	227	" "

Rock Bass; Goggle-eye Red eye

32

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1877			Sandusky Ohio		Smithsonian Inst.

Family EPHIPPIDÆ.

Parehippus gigas, Gill. Moon Fish.

Chaetodipterus

()

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	68 ✓	♂			Purchased
850 ✓					"

Chaetodipterus

m

Parehippus quadratus, (Gill.) Gill

Moon Fish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1876 ✓			Beaufort N.C. Ward C. Yarrow Smithsonian Inst.		

Family POMATOMIDÆ.

Pomatomus saltatrix (Linn.), Gill. Mackerel; Skip-Jack.

Blue. Fish

Horse-mackerel; Green-Fish; Tailor.
Smoking-mackerel; White-fish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
63 ✓	♂				Purchased
64 ✓					"
555 ✓					"
1158 ✓					Smithsonian Inst.

3X

228

33

Sub-Order Incertae sedis
Family Ammodytidae

Ammodytes americanus, DeKay.....

Sand-lance; Sand-Eel.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	+865 ✓		Woods Hole Mass	U.S. Fish Comm.	Smithsonian Inst.

Family ECHINEIDÆ.

Leptecheneis naucrateoides (Zuiw.), Gill. Sucker.

Cran.	Skel.	Sex.	Locality.	Wali	Collector.	Donor.
2369 ✓	71 ✓		Woods Hole R. I.	Jun 79	U.S. Fish. Comm.	Mr C. Klotz. Smithsonian Inst.

Family Sphyrænidæ.

Sphyræna borealis, DeKay.....

Northern baracuda; serrated

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	+815 ✓		Woods Hole Mass	U.S. Fish. Comm.	Smithsonian Inst.

35.

229

Family Mugilidae (Mugils)

Mugil.....

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1887 ✓		Castries - Wd.		Smithsonian Inst.

Mugil cephalotus (?).....

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1880 ✓			Honolulu		Smithsonian Inst.

Family AETHERINIDÆ.

Chiostoma notata (Mitch.), Gill. Silver-sides.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
882 ✓					Haszn. Stein. A. K. Ferris ^{USA}
1767 ✓			Woods Hole Mass. U.S. Fish Com.	Smithsonian Inst.	

SUB-ORDER SYNENTOGNATHI.

Family BELONIDÆ.

Belone longirostris (Mitch.), Gill. Silver Gar; Bill Fish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	55 ✓	♂			Purchased
562 ✓					11

Belone latimanus ♂ Poey.
Gar fish.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
2350 ✓			W.M. Marden	Jan 1879	U.S. Fish Com.	Smithsonian Inst.

Family SCOMBERESOCIDÆ.
Exocoetus exiliens, Gmelin. Flying Fish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1054 ✓		West coast of Africa		Mr. John B. Whitehead
2451			<i>Exocoetus californicus</i> (Cooper) San Pedro Cal Aug 1881		Smithsonian Inst.

Hemiramphus pleii, Val.

✓ Red-billed gar.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1793 ✓		Bermuda	G. B. Goode	Smithsonian Inst.

Scomberesox scutellatus, Le S.

✓ Skipper; young; oldish - Jack.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1840 ✓		Cape Cod Mass.	U.S. Fish Com.	Smithson. Inst.

3X

231

SUB-ORDER HAPLOMI.

Family ESOCIDÆ.

Esox nobilior, Thompson

Muscallunge. Great Pike.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1817 ✓		Sandusky Ohio		Smithson. Inst.

Esox lucius, Linn. Lake Pike; Muscalunge.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	146 ✓	♀			Purchased
609 ✓	1809 ✓		Sandusky Ohio		Smithson. Inst. "

Esox americanus, Lac....

Banded Pickerel. Trout Pickerel.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1790 ✓			New York Market	U.S. Fish Com	Smithson Inst.

Esox reticulatus, Lesueur. Pickerel.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	16 ✓	♀			Purchased.
557 ✓					"

Family CYPRINODONTIDÆ.

Fundulus heteroclitus (Linn.), Gill. Mummichog.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	880 ✓			Hugh Stein. A. K. Ferris U.S.A.	
1133 ✓			1868	Wm. F. Schaphorst U.S.A.	
38.					252

Fundulus bairdii, Agass. Baird's Stone-tugger.

✓ Sp.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	+03 ✓		1866	J. D. S. Stev. E. F. Schaphus	^{usa} Smithson. Inst.

Fundulus piceolentus, (Mitch.) Val.

Mummichog - Minnow.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1763 ✓		Woodstock Mass. W. Fish Com		Smithson. Inst.
	1764 ✓		Bermuda	G. B. Goode	" "

Hydrargyra majalis (Walb.), Val. Mummichog.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	88+ ✓			J. D. S. Stev. A. K. Fernald	
	1765 ✓		Woodstock Mass. W. Fish Com	Smithson. Inst.	
	1766 ✓		" " "	" "	" "

Family Umboniidae

Melanura limi, (Kirt.) Ag.

Mud minnow: Mud dace Wag fish

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1848 ✓		Worthfield 2nd		Smithson. Inst.

SUB-ORDER ISOSPONDYLI.

Family Synodontidae

Synodus foetens, (Linn.) Gill.

Snake-fish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1847 ✓		Beaufort N.C.	Dr H. C. Yarrow	Smithson. Inst.
	3X				253

Family MICROSTOMIDÆ.
Osmerus mordax (Mitch.), Gill. Smelt.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	1064 (2)			1868	Wm F. Schaphius U.S.A.	
	2321 ✓		<i>Oncorhynchus pacificus</i> Trans. Riv. Wash. Jan 1879	U.S. Fish Com.	Pacific Smelt.	Smithson Inst.

Family SALMONIDÆ.

Oncorhynchus gairdneri (Rich.) Günther.
California, Columbia, & Gunnar Salmon

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
2362 ✓			McCloud Riv. Calif.	June 79	U.S. Fish Com.	Smithson Inst.
2421 ✓			Oncorhynchus gairdneri (Walt.) Jour. & Gill. Fraser's River B.C.	May 81	U.S. Fish Com.	Smithson Inst.

Salmo trutta Cope

Bear River Wyoming Wm Clemens U.S.A.

Salmo sebago Grd. Landlocked Salmon
Schowack Lake June 79 U.S. Fish Com. Smithson Inst.

*Salvelinus**Salmo fontinalis* (Mitch.) Brook Trout.

Gill & Jordan.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	58 ✓	♂		F. R. Grove U.S.A.	
57 ✓	+845 ✓		Madina N.Y.	Purchased Smithson. Inst.	

Salvelinus

Gill & Jordan.

Salmo equassa (Grd.)Blueback Trout - *equassa*.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1885 ✓		New York	Smithson. Inst.	

Cristivomer namaycush (Walb.) Gill & Jordan,

Salmone confinis, De Kay Lake Trout.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	144 ✓	♂			Purchased
1288 ✓					"

Thymallus tricolor, Cope

Grayling.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1578 ✓		New York State clupeiformis (mit.) Wilmer	Fred. Mather.	

Coregonus ~~albus~~, Linn. White Fish.

Gizzard fish

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	131 ✓	♂			Purchased.

Family Albulidae.

Albula conorhynchus, Bl. and Schn.....

Lady-fish.

Cran.	Skel.	Sex.	Locality.	Natl	Collector.	Donor.
	1780 ✓		Bermuda			
2365 ✓			New Bedford		G. B. Goodale U.S. Fish. Comm.	Smithsonian Inst. "
X						

Family ELOPIDÆ.

Elops saurus, Linn.

Big-eyed herring; mataguero blanco; real.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1802 ✓		New Bedford Mass U.S. Fish Com	Smithsonian Inst.	

Megalops thrioides (Bl. Sch.), Günther. Jew Fish;
Tarpum.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1140 ✓				Smithsonian Inst.

Family Wussumiidae.

Etrumeus teres, (DeKay) Brevoort.

Round herring.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1866 ✓		Wood's Hole Mass U.S. Fish. Com	Smithsonian Inst.	

Family Hyodontidae

Hyodon tergisus, Le S.

Moon-eye; Silver-bass; Toothed herring.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
X	1797 ✓		Sandusky Ohio		Smithsonian Inst. 236

Family CLUPEIDÆ.

Tyrannus (Latrobe) Goode.

Brevoortia menhaden, (Mitch.) Gill

Menhaden; moss-bunker; hardhead; herring-fish; bunker
white-fish; bat-head; yellowtail; big-fish

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1791 ✓		Woods Hole Masso	U.S. Fish Com	Smithson. Inst.
	2358 ✓		Pensacola Fla Jun. 791	U.S. Fish Com	Smithson. Inst.

Alosa sapidissima (Wilson), Storer. Shad.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	36 ✓	♀			Purchased
570 ✓					"

Opisthonema thrissa, Gill

✓ Thread herring, menhaden.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1879 ✓			Eastern shore of Virginia		Smithson. Inst.

X

237

Pomolobus pseudoharengus (Wilson), Gill. Herring;
Alevife.

~~Gasparine~~

saw-belly.

Spring herring; blue back

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1070 ✓					Purchased
1071 ✓					"
1072 ✓					"
1073 ✓					"
	1078 ✓				Purchased

Pomolobus mediocris, (Mitch.) Gill

Tailor herring,
ball shad,

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1786 ✓		Woods Hole Mass. W. Fish Comm.	Smithson Inst.	

Clupea harengus, Linn.

✓ English herring.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1807 ✓		Castine - Maine W. Fish Comm.	Smithson Inst.	

X4.

238

y
y

Family DOROSOMIDÆ.
Dorosoma cepedianum (Lac.), Gill. Toothed Herring.

un.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	108 ✓	♂			Purchased.
567 ✓					"

Family Engraulidæ
Engraulis ?
Anchovy

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1857 ✓		Woods Hole Mass. N. Fish. Com. Smithson. Inst.		

SUB-ORDER EVENTOGNATHI.
Family CATOSTOMIDÆ.

~~Hypentelium~~ nigricans, Agassiz. Black Sucker.

(Le S.) Jordan.

Hog sucker, Stone-roller, Crawfish-bottom,

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	57 ✓			1866	J. A. Allen E. F. Schaphuis. W.
572 ✓					Purchased.
	1844 ✓		Susquehanna River, Penna		Smithson. Inst.

X5.

239

sommersoni (Lac.) Jordan.

Catostomus ~~teres~~, Lesueur. Chub; Sucker.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
659 ✓					Purchased
662 ✓				Mrs. Stew. A. K. Fennish	Da
663 ✓				"	" "
664 ✓				"	" "
665 ✓	1731 ✓		Welamane River	Dr J. C. Gannett	
	2346 ✓		Coarse Mich. Jun 79	N. Fish. Com.	Smithson Inst.

Catostomus longirostrum, Le S.....

Long nosed sucker

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1856 ✓			Essex Co. N.Y.		Smithson Inst.

~~See also *hystrichias*~~

Catostomus nigricans, Le S.....

~~Black sucker~~

Cran.	Skel.	Sex.	Locality.	Collector	Donor.
1844			Pema Susquehanna Rive		Smithson Inst.

sueetta (Lac.)

Fundulus oblongus, (Mitch.) Jordan...

Johannes see page 45
inert nos X *Horned snapper*

Creek-fish; Chub-sucker, Yellow Mullet.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
✓	1805 ✓		Patuxent River		Smithson Inst.

240

~~✓~~ 46

~~X~~

see page

Moxostoma oblonga, Agassiz. Horned Sucker.

Yellow mullet.

V

✓

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
-------	-------	------	-----------	------------	--------

806 ✓

Purchased.

~~807~~ ✓

"

Carpioles sp. indet.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	66 ✓	♂			Purchased.

Family CYPRINIDÆ.
Carassius auratus, Bleeker. Goldfish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	28 ✓	♀			Purchased
569 ✓	630 ✓	(630 in a skeleton of this fish in the collection of W. H. Bishopfield & H. H. Hitchcock, N.Y.)			"
1742 ✓		Bermuda			Dr. J. L. Tamm
2334 ✓		Cyprinus carpio (Lin. Carp. Windmill Park June 1859 Balti. Md.)	1866	W. Fish Com.	Smithsonian Inst.

Semotilus corporalis, (Mitch.) Putnam

Common chub; Horned dace. Creek chub.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	169 ✓	♂		Mr. F. Schaphir, N.Y.A.	
	1853 ✓		Ohio River		Smithsonian Inst.

~~X~~

241

bullaris (Raf.) Jor.

Semotilus pulchellus, Gill. Chub.

Fall-fish, Chub, Roach, Swamp Carp.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
573	585			1866	Purchased Bush Stein. E. F. Schaphire-W.A.
866	1874		Pennsylvania	1866	Wm. F. Schaphire-W.A. Smithsonian Inst.

Same as preceding

Semotilus rhothous, Cope. Fall Fish; Swamp Carp.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
585					Bush Stein. E. F. Schaphire-W.A.
866	1874		Pennsylvania		Wm. F. Schaphire-W.A. Smithsonian Inst.

Hybognathus regius, Girard. Gudgeon; River Smelt.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
75			1866	J. Bush Stein. E. F. Schaphire-W.A.	
560					Purchased

X8.

242

Luxilus

Hypsilepis cornutus, Mitch. *Red-fin.* *Shiner.* *Rough-head, Roach,*
Rat-gut.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	568	♀			Purchased
	864		1866	Wm F. Schaphis-Wla	9 dms

To Printer see page 48 at *

insert.

Iodus melanotus Heckel
The Ide

Cran.	Skel.	Sex.	Locality.	Wali	Collector.	Donor.
	2338		Germany	1879	U.S. Fish Cm.	Smithson Inst.

Hybopsis hudsonius (Clinton) Putnam
Spanner-eater.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	879			Nash. Stein. A. R. Ferris Wla	
	1849		Potomac River		Smithson Inst.

Ceratichthys biguttatus (Kirtland.) Horned Chub.
Lrod
Horned-head. Jerker.
Great River Chub.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	588		1866	Nash. Stein. E. F. Schaphis-Wla	
	5920				Mr Frank Jones.

cataractae (Val.) Jordan.

Rhinichthys ~~maculatus~~, (Ayres) Ag.

Long nosed dace. Niagara Gorgeon

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	+852 ✓		Carlisle Penna		Smithsonian Inst.
	+897 ✓		Indian Territory Wash. S. Cen.		S. Kitching USA

Notemigonus chrysostomus (Mitch.) Jordan

~~Stilbo~~ ~~americana~~, Linn. ~~Mississippi~~ Shiner.

Golden Shiner.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	599 ✓				W. F. Schaphire U.S.A.
	124 ✓		Welaware River 1866		Wm. St. C. Yarrow.
	1810 ✓		Sandusky River		Smithsonian Inst.

See Anti ✗ insert on page 47

Luxilus cornutus, (Mitch.) Jordan.....

Common shiner; Red-finned shiner; Rough head; Red-fin

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1851 ✓		Susquehanna River Penn		Smithsonian Inst.

analostanus (Grd.)

Luxilus kentuckiensis, Gill. Gold-striped Dace.

Silver-side

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	43 ✓		1466	Hugh Stein E. F. Schaphorst W.	

already

~~Notemigonus americanus (Linn.) Jordan~~

~~Shiner; Sillie; Bream.~~

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1810		Jamichoty Chis.	Haldeman.	Smithson Inst.

Exoglossum maxillingua (Lesueur) Tonguejaw.

Way chub; Cut-wip; Trigger chub.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	587 ✓			W. Shepherd Eq.	

ORDER NEMATOGNATHI.

Family SILURIDÆ.

~~Ictalurus punctatus, (Raf.) Jordan~~~~Ictalurus~~

Channel cat; Blue cat. White cat.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1882 ✓		Sandus Ky Ohio		Smithson Inst.

Ameirus albidus (St. L.) Cope

Ictalurus punctatus (Cuv. & Val.) Cope

Fork. tail & Cat. fish. Channel Cat of the Potomac

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1727 ✓		Wenawane River	W. H. C. Yarrow.	
	1728 ✓		" " Wali	W. H. C. Yarrow.	
	1733 ✓		Potomac " June 1879	W. Fish Com.	Smithson Inst.

Big-mouthed cat-fish

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1784 ✓		Staunton River		Smithson Inst.
✓	✓		Amiurus nigricans, Lesueur. fish.	Gill	Great Mississippi Cat, Great Florida Cat.
Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	21 ✓				Purchased.
563 ✓					"
564 ✓					"

Amiurus melas (Raf.) Ind. & Copeland.

Small Black Catfish.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
2322 ✓			Cook Co Ill.	Jun 79	U.S. Fish. Comm.	Smithson Inst.

Amiurus natalis lineatus (de Sauv.) Raf.
Catfish - Yellow Cat.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
2339 ✓			Kentucky	Jun. 79	U.S. Fish Comm.	Smithson Inst.

catinus (L.) Bill.
Amiurus atrarius, DeKay. Black Catfish. formerly Pont. Bull head, Minister

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1143 ✓					Smithson Inst.
1836 ✓			Potomac River		" "

xx.

246

stone cart.

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Susquehanna Riv.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
2326 ✓			Grand River Mo	July 9	U.S. Fish. Comm.	Smithsonian Inst.

Notimus grypus (Milne-Edwards) Sline Cat-

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	2324 ✓		Piermont-N.Y.	Jun 79	U.S. Fish. Com.	Smithsonian Inst.
	2351 ✓		<i>Ampelisca milberti</i> (Val)	Jun 79	U.S. Fish. Com.	Smithsonian Inst.

Rhamdia brachypterus (Cope), Gill. *Mexican Catfish.*

ORDER Apodes.
Sub-ORDER ENCHELYCEPHALI.

Family Congridae
Sub. fam. Congrinæ.
Conger oceanica (Müll.) Gu.
Conger - el.

<i>Sex.</i>	<i>Locality.</i>	<i>Wali</i>	<i>Collector.</i>	<i>Do</i>
		Junyq	W. Fish Cm.	Smith

IV

100

Family ANGUILLIDÆ.					
Anguilla <u>bostoniensis</u> (Les.), DeKay. Common Eel.					
Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
✓	✓		<u>vulgaris</u> Fleming		

Digitized by srujanika@gmail.com

Family Muræni

Sex.	Locality.	Wali	Collector.	

Bermuda Aug 79

Family Synaphobranchidae.

Synaphobranchus primatus Günther

2328. Lat 42° 47' N June 1879 W. Fish Cm. Smithsonian Coll
Long 63. 10 W 1879 W. Fish Cm. Smithsonian Coll
375 fms.
372 373

Family Simechelyidae

Sinenechelys parasitum
P. - named Ed.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	2327 ✓		Lat. 44° 17' N Long. 58.10 W.	July 9	U.S. Fish Comm.	Smithsonian Inst.

SUB-CLASS Ganoidei.

SUPER-ORDER HYOGANOIDEI.

Order Cycloaganoidae
Family Amiidae

Amia calva, Linn.....

Bowfin; Wag.-fish; Mud fish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1803 ✓			Sandusky Ohio		Smithson. Inst.

ORDER Rhomboganoidei.

Family LEPIDOSTEIDÆ.

Lepidosteus osseus (Lac.) Common Gar Fish.

Ag.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
62 ✓	♀				Purchased.
565 ✓					"
566 ✓	1823 ✓		St. Johns River, Fla.	G. B. Goode	Smithson Inst.

Lepidosteus platostomus, Raf. (Lac.) Jordan
Short nosed gar pike.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1827 ✓			Mississippi River		Smithson Inst.

Order Selachostomi
Family Polyodontidae
Spoon-billed cats.

Polyodon folium, Lac.....

✓ Nucle-billed cat; spoon-billed sturgeon. Paddle-fish

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1577 ✓			Pittsburgh Penna		J. Mather.
1808 ✓			Madison Ind		Smithson. Inst.

324

348

SUPER-ORDER CHONDROGANOIDÆ.

ORDER Chondrostei.

Family ACIPENSERIDÆ.

Acipenser oxyrinchus, Mitch. Sharp-nosed Sturgeon.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	961				Purchased
	981 ✓				Smithson Inst.
1152 ✓					
1864 ✓			Patomac River		" "

Acipenser ruthenus Linnaeus
Sturgeon

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	2342 ✓		Germany	Jun 79	U.S. Fish. Com.	Smithson Inst.

Seaphirhynchops platyrhynchus, (Raf.) Cope... Shovel nosed Sturgeon.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1819 ✓			Circumtropic		Smithson Inst.

SUB-CLASS Elasmobranchii.

Super-order Holocephali.

Order Holocephali

Family Chimaenidae

Chimaena plumbea Gill.

Brown Chimaena

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
2377			La Haye ?	Jun 79	U.S. Fish. Com.	Smithson Inst.

Dasyatis

SUPER-ORDER PLAGIOSTOMI.

ORDER Raiae.

SUB-ORDER MASTICURA.

Family TRYGONIDÆ.

Trygon centrura (Mitch.), Gill. Sting Ray; Stingaree

Chimaera

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1165 ✓	Jr				Smithson Inst.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1174 ✓	ad		Welanau Bay		Mr J. P. Yarrow

Sub-order Sarcurina
Family Rajidae.

Raia undulata, Lacep. Whip-tailed Ray.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
874 ✓					Purchased

249

Raia laevis, Mitch. Sharp-nosed Skate.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
-------	-------	------	-----------	------------	--------

1159 ✓

Smithson Inst.

Raia erinacea Mitchell Clear-nosed Skate

2383 ✓

Gulf of Mexico	Jun 79	U.S. Fish. Comm.	Smithson Inst.
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Raia radiata Warner Skate.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
2384 ✓			Gulf of Mexico	Jun 79	U.S. Fish. Comm.	Smithson Inst.
	2379 ✓		" "	" "	" "	" "
2449 ✓			Raia stellulata - For. and Gill. Monterey Cal. July 81		Emichorium Institution	

ORDER SQUALI.

SUB-ORDER Rhinæ

Family Sphyrnidæ

Sphyrna zygaena (Linn) Müll. & Henle
Hammer head Shark. Cormida. Magna.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
2343 ✓				Jun 79	U.S. Fish. Comm.	Smithson Inst.

Family ODONTASPIDIDÆ.

Eugomphodus littoralis, Gill. Sand Shark; Shovel-nose.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1166 ✓					Smithson Inst.
1171 ✓					" "

X6.

250

Family GALEORHINIDÆ.

Eulamia milbertii (Müll. and Henle), Gill. Blue Shark.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
673					
673					Mr. Robt. K. Stone
maxillæ					
1269					
1878 ✓			Woods Hole Mass. U.S. Fish. Comm.	H. H. Van Cleave	Smithson. Inst.
2851					
			Jan. 79	" " "	" "

Eulamia obscurus (Lesueur), Gill. Dusky Shark.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1172 ✓					Smithson. Inst.
1262 ✓					" "

Galeocerdo tigrinus, Müll. and Henle. Tiger Shark.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1052 ✓			Texas	Cul. J. B. Clift	10 th N. Y.

3X

251

Mustela canis (Mitch.), DeKay. Smooth Dogfish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1167					Smithson Inst.
1818 ✓			Woods Hole Mass. W. Fish Com.	Smithson Inst.	

Family SPINACIDÆ.
Squalus americanus (Storer), Gill. Dogfish; Dog Shark.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1155 ✓					Smithson Inst.
1826 ✓			Woods Hole Mass. W. Fish Com.	Smithson Inst.	

Centrophorus coelolepis Günther

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
2366 ✓	♂		Wali Jan 79	W. Fish Com.	Smithson Inst.

38.

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Miscellaneous Specimens
of and from
Fishes

No.

- 104 Entozoa found in Pains stone trigger (*fundulus Painsii*). Presented by Dr F. Schaffert.
- 132 Entozoa found in gizzard fish (*cyclopus clupeiformis*). Presented by Dr. F. Schaffert.
- 145 Intestinal canal of lake trout (*Chlorostomus namaycush*) exhibiting large development of tubular glands. Presented by Dr F. Schaffert.
- 630 Specimen of gold fish (*carassius auratus*) with double tail and one sternal rib connected with first rib of right side. Presented by Mr. A. H. Nichols.
- 863 Cranium, with superior maxilla in rudimentary condition, of yellow perch (*perca americana*). Presented by Dr F. Schaffert.
- ~~875~~ Heart of whip-tailed ray (*raia undulata*). Presented by Dr F. Schaffert.
- 1015 Superior maxilla of saw fish (*pristes antiquorum*). Presented by Lieutenant Lincoln, 10th Infantry.
- 1063 Superior maxilla of saw fish (*pristes antiquorum*). Presented by Assistant Surgeon St. McElderry U.S.A.
- 1099 Entozoa found in caudal muscles of drum fish (*pogonias cromis*). Purchased.

No.

1093

Alimentary canal of Congee eel (*Conger oceanicus*). Presented by Dr. F. Schafhirt.

1097

Heart of drum fish (*Pogonias chromis*). Presented by Dr. F. Schafhirt.

1098

Cecal (vermiform) appendages of drum fish (*Pogonias chromis*). Presented by Dr. F. Schafhirt.

1135

Superior maxilla of saw fish (*Pristis antiguorum*). Donor unknown.

1173

Heart of dusky shark (*Culamia obscurus*). Received in exchange from the Smithsonian Institution.

1269

Jaws of blue shark (*Culamia milbertii*). Presented by Dr. J. H. Van Arnam.

1732

Palate bone of drum fish (*Pogonias chromis*). Presented by Surgeon J. R. Smith, M.D.

2191

Maxillae of Man-eating shark (*Squalus carcharias*). Presented by Capt. Sng. Y. Porto, USA.

2236

Eggs of shark-nosed skate (*Raja laevis*). Presented by Surgeon J. R. Smith, M.D.

2382

Embryo, six and a half inches long, of shark.

2447

Portion of Superior maxilla of drum fish (*Pogonias chromis*). Presented by Mr. W. E. Thomas.

Miscellaneous Specimens
of
Fishes —

See preceding 2 pages

✓

Class Pisces
 Sub. Class Teleostei
 Order Telecephali Sub-order Acanthopteri
 Family Sciaenidae
 Sub-family Synbranchidae
Pogonias chrysas Lac.
 Worm-fish - Cylindrus Worm

No.	Object.	Sex.	Locality.	Collector.	Donor.
1732	Palat. Bone		Chesapeake Bay	Mr. Jos. R. Smith u.s.a.	
1097	Heart Canal (wom)			1868	Mr. Fred Schaphorst u.s.a.
1098	appendages			1868	" " "

Family Percidae
Percus americanus Schrank
 Yellow Perch.

No.	Object.	Sex.	Locality.	Collector.	Donor.
863	Cranium with May Sup. in m. diminuting condition			1866	Mr. Fred. Schaphorst u.s.a.

Sub-order Goopondyli
 Family Salmonidae
Cristivomer namaycush (Wall) Stejn & Jordan
 Lake Trout.

No.	Object.	Sex.	Locality.	Collector.	Donor.
145	Intestinal Canal ex- hibiting large development of tubular glands			1866	Mr. Fred. Schaphorst u.s.a.

2

Suborder Ctenognathi
 Family Cyprinidae.
Carassius auratus Bleeker
 Gold Fish.

No.	Object.	Sex.	Locality.	Collector.	Donor.
1030	Spec. with double tail + 10 sternal air canals and 10 on opposite side				H. M. Richards U.S.A.

Gender Aphodes
 Suborder Enchelycophali
 Family Congridae
Conger oceanicus (Müll.) Gies
 Conger Eel

No.	Object.	Sex.	Locality.	Collector.	Donor.
1093	Alim. Canal			1868	Nr. F. Schaphorst U.S.A.

Sub-class Elasmobranchii
 Super-order Plagiostomi
 Order Rajae.
 Sub-order Squalaria
 Family Rajidae.
Raja undulata Lac.
 Whip-tailed Ray.

No.	Object.	Sex.	Locality.	Collector.	Donor.
875	Steart.			1866	Nr. Fred. Schaphorst U.S.A.
2236	Eggs			(Ft. Monroe Va.) <small>Aug 1859</small>	Supt. J. R. Smith U.S.A.

X

Family Pristidae
Pristis antiquorum (Linn.) Lath.
 Saw fish.

No.	Object.	Sex.	Locality.	Collector.	Donor.
1015	Saw ??		Texas Fort Grappling Texas 1868	St. Louis 10 th Inf.	
1016 ^{b3}	Sub. Mass	"		Wm. H. McElderry Jr.	
1135	" "				

Order Squali
 Sub-order Rhinatae.
 Family Galeorhinidae
Eulamia milbertii (Müller & Henle) Gie
 Blue Shark

No.	Object.	Sex.	Locality.	Collector.	Donor.
1289	Jaws Mastilla			Dr J. W. Van Arnum	

Eulamia obscurus (Desnoux) Gie
 Wobbly Shark

No.	Object.	Sex.	Locality.	Collector.	Donor.
1173	Heart			Smithson Inst.	
2382	Embryo 6 weeks old			June 1879 U.S. Fish. Com	Smith Inst.

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